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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/693,007	10/24/2003	William C. Phillips	1023-284US01	9366
	7590 06/04/200° & SIEFFERT, P. A.	<b>7</b>	EXAMINER	
1625 RADIO D	•		MANUEL, GEORGE C	
SUITE 300 WOODBURY,	MN 55125		ART UNIT	PAPER NUMBER
			3762	
•			MAIL DATE	DELIVERY MODE
	•		06/04/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
	Office Action Summary	10/693,007 Examiner	PHILLIPS ET AL.		
•	•		Art Unit		
	The MAILING DATE of this communication ap	George Manuel pears on the cover sheet with	the correspondence address		
	or Reply				
WHI - Extrafte - If N - Fail Any	HORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D ensions of time may be available under the provisions of 37 CFR 1. or SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period une to reply within the set or extended period for reply will, by statute or reply received by the Office later than three months after the mailing hed patent term adjustment. See 37 CFR 1.704(b).	PATE OF THIS COMMUNICA 136(a). In no event, however, may a reply will apply and will expire SIX (6) MONTH be cause the application to become ARAN	TION. y be timely filed  S from the mailing date of this communication. DONED (35 U.S.C. 8, 133)		
Status	,				
1)  ズ	Responsive to communication(s) filed on <u>05 N</u>	March 2007			
		s action is non-final.			
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under				
Disposit	tion of Claims				
	Claim(s) <u>1-11,13-35 and 37-67</u> is/are pending	in the application			
,	4a) Of the above claim(s) is/are withdra				
5)[	Claim(s) is/are allowed.				
6)⊠	Claim(s) 1-11,13-35 and 37-67 is/are rejected				
7)	Claim(s) is/are objected to.		•		
8)□	Claim(s) are subject to restriction and/o	or election requirement.	•		
Applicat	tion Papers				
9)	The specification is objected to by the Examine	er.			
		epted or b) objected to by	the Examiner.		
	Applicant may not request that any objection to the				
	Replacement drawing sheet(s) including the correct				
11)	The oath or declaration is objected to by the Ex	kaminer. Note the attached C	ffice Action or form PTO-152.		
Priority	under 35 U.S.C. § 119				
12)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 1	19(a)-(d) or (f).		
	All b) Some * c) None of:	. ,			
	1. Certified copies of the priority document	s have been received.			
	2. Certified copies of the priority document	s have been received in App	lication No		
	3. Copies of the certified copies of the prior	rity documents have been re	ceived in this National Stage		
	application from the International Burea	• • • • • • • • • • • • • • • • • • • •			
* (	See the attached detailed Office action for a list	of the certified copies not rec	ceived.		
Attachmer	nt(s)				
	ce of References Cited (PTO-892)	4) Interview Sum			
	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)		lail Date mal Patent Application		
	er No(s)/Mail Date	6) Other:			

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06) Application/Control Number: 10/693,007

Art Unit: 3762

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-11, 13-35, 38-58 and 60-67 are rejected under 35 U.S.C. 103(a) as being unpatentable over Woods et al '899 in view of Monroe et al (US 5,527,261) and further in view of Nardelli et al (US 2003/0063863).

Woods et al disclose a first circuit board comprising RF module 650 within a first housing member comprising microprocessor 620, a second circuit board comprising display screen 240, a second housing member comprising hand held programmer 202, a loading port comprising ROM port 647, and a plate member comprising button pad 241. Fig. 7A shows housing member 202 from a z-axis perspective in which elements: RF module 650, microprocessor 620, display screen 240, and button pad 241 are stacked.

Monroe et al teach a hand-held device similar in size and shape to the device disclosed in Woods et al may comprise a stack of circuit boards 62 located within a body portion 14.

Nardelli et al teach stacking circuit boards saves space.

In view of the teachings of Nardelli et al and Monroe et al, one of ordinary skill in the art would have found it obvious to stack the circuit elements of Woods et al in a stacked z-axis configuration.

Regarding claims 30 and 53, Woods et al show the processor IC 620 includes an RF module 650 that connects to an antenna 652 via an RF Receiver circuit 653 and an RF transmitter circuit 654.

Regarding claims 45 and 67, Woods et al show a computer is connected to the HHP 202 through an IrDA compatible infrared serial port using an infrared cable extension.

Woods et al does not appear to show disabling the display during telemetry and the battery features.

One of ordinary skill in the art would have found it obvious to disable the display during telemetry because this is a known technique to conserve power.

Regarding claims 31-33 and 54-56, one of ordinary skill in the art would have found it obvious to provide a battery bay for batteries in the first housing member because the unit is intended to operate on battery power.

Claims 37 and 59 are rejected under 35 U.S.C. 103(a) as being unpatentable over Woods et al '899 in view of Monroe et al (US 5,527,261) and Nardelli et al (US 2003/0063863) and further in view of Greenberger et al '369.

Greenberger et al teach using a JTAG test port for in situ testing of IC chips mounted on a board.

One of ordinary skill in the art would have found it obvious to use the teaching of Greenberger et al with the microprocessor chips of the device disclosed in Woods et al because the chips are mounted on similar type boards.

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## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Manuel whose telephone number is (571) 272-4952.

George Manuel Primary Examiner Art Unit: 3762

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